SLAVIK, J; APPELT, J; SLAVIKOVA, L.

Institute for Medical Chemistry, Purkyne University, Brno.

Prague, Collection of Czechoslovak Chemical Communications, No 11, November 1965, pp 3961-3963.

"Papaveraceae alkaloids. Part 31: Alkaloids from Papaver commutation Fisch et Mey."

ACC NR: AP6023156

SOURCE CODE: CZ/0060/65/000/004/0161/0164

AUTHOR: Sturma, Alois—Shturma, A. (Lt. colonel; Doctor of medicine; Candidate of // sciences); Slavicok, Jaroslav—Slavichek, Ya. (Graduate physician)

ORG: Sturma VPA KG, Prague; Slavicek Physiological Institute, FVL, KU, Prague (Fyziologicky ustav FVL KU)

TITIE: Physiological determination of physical fitness in relation to sports achievements of students

SOURCE: Vojenske zdravotnicke listy, no. 4, 1965, 161-164

TOPIC TAGS: man, physical fitness, physiologic parameter

ABSTMACT: 31 healthy men aged 31-35 years were subjected to a standard physical load of 10.5 kgm/kg body weight (step test) for 5 minutes. The following were investigated: physical fitness index, pulse rate after physical stress, respiratory rate during and after physical exertion, the minute tidal volume during and after physical stress. The average fitness value was 89; the values found varied between 71 and 102. This shows the low fitness of the subjects, because an average athlete is subjected to on author's Eng. abst. / JPRS/

SUB CODE: 06 / SUBM DATE: none / ORIG REF: 007 / OTH REF: 004

Card 1/1 (1)

2 30943-66

UDC: 613.7-072.7

132

8/276/63/000/001/018/028 A006/A101

**AUTHORS:** 

Němeček, Miloslav, Slavík, Jaroslav

TITLE:

A method of manufacturing heat-exchanger ribs from metal strip

PERIODICAL: Referativnyy zhurnal, Tekhnologiya mashinostroyeniya, no. 1, 1963, 37, abstract 1V170 P (Czechosl. Patent, cl. 7b, 16/01, no. 100645, of August 15, 1961)

A patent is delivered for a new method of manufacturing heat exchanger ribs. A metal strip is passed through special rolls 1, 2 (Figure 1) producing two-sided corrugation. The corrugation height decreases toward the strip center. The rolls produce along the strip axis a uniform strap of width a (Figure 2). After bending, the strip is cut along the central line 4 of the strap. In this shape the rib is prepared to be wound onto a conducting pipe. There are 2 figures.

V. Kovalenko

[Abstracter's note: Complete translation]

Card 1/2

45648

Z/031/63/011/001/002/002 E073/8435

//210 AUTHORS:

Slavík, Jaroslav and Capka, František

TITLE:

Explosive forming. Experience gained by n.p. Strojírny prvni petiletky, Kunovice

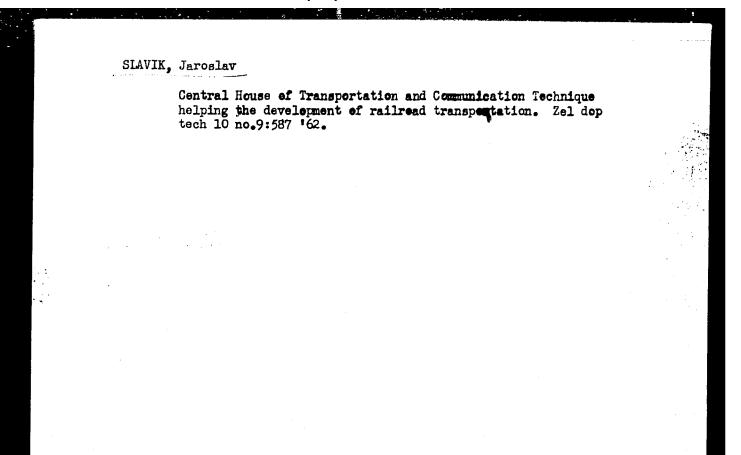
PERIODICAL: Strojírenská výroba, v.11, no.1, 1963, 6-9

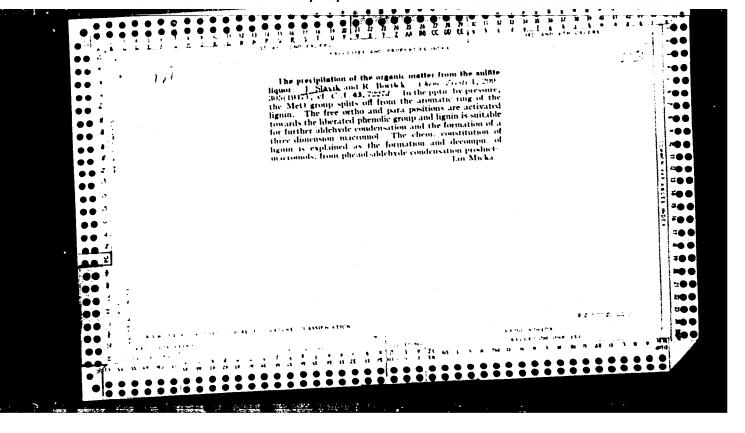
In the initial experiments a steel tube of 500 mm inner TEXT: diameter was embedded in a piece of reinforced concrete of The sheet to be formed was 1500 mm diameter, 1200 mm depth. inserted as a liner, inside which was placed a PVC bag filled with A 100 mm rubber pad was placed at the bottom, below the PVC bag, to attenuate the vertical pressure during the explosion produced by a 100 g charge which was suspended on a wire and The service life of the equipment was electrically detonated. very low; cracks formed in the concrete immediately after the first explosion, which then propagated very rapidly during subsequent explosions. Several other systems, which were tried and proved unsuccessful, are briefly described. The developed mould system consists of a welded steel structure in which the part to be formed is placed at the bottom of the mould and the Card 1/2

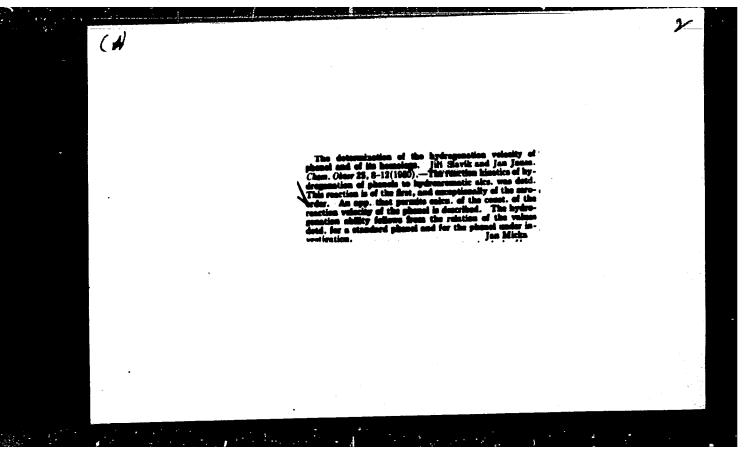
SLAVIK, Jaroslav; CAPKA, Frantisek

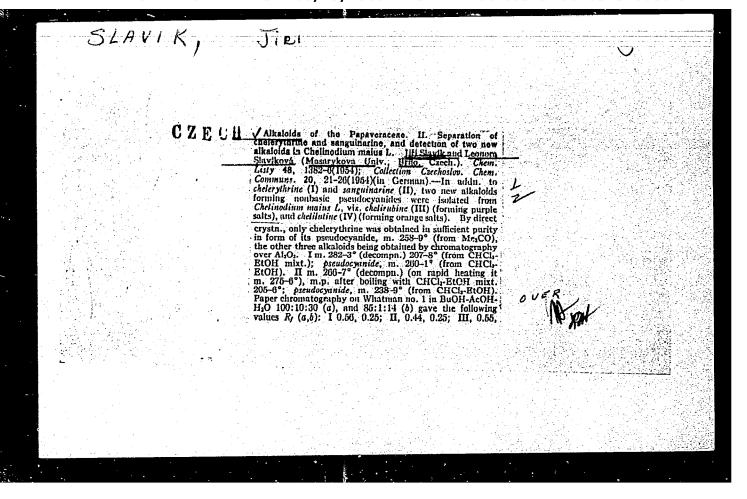
Explosion forming. Stroj vyr 11 no.1:6-9 '63.

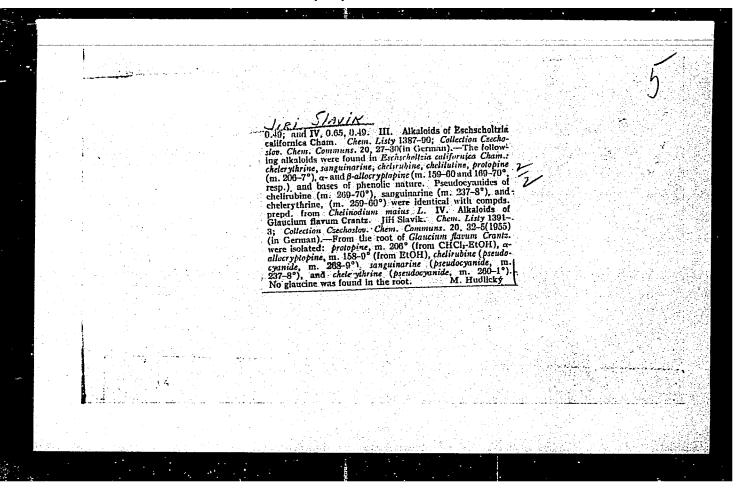
1. Strojirny prvni petiletky, n.p., Kunovice u Uherskeho Hradiste.

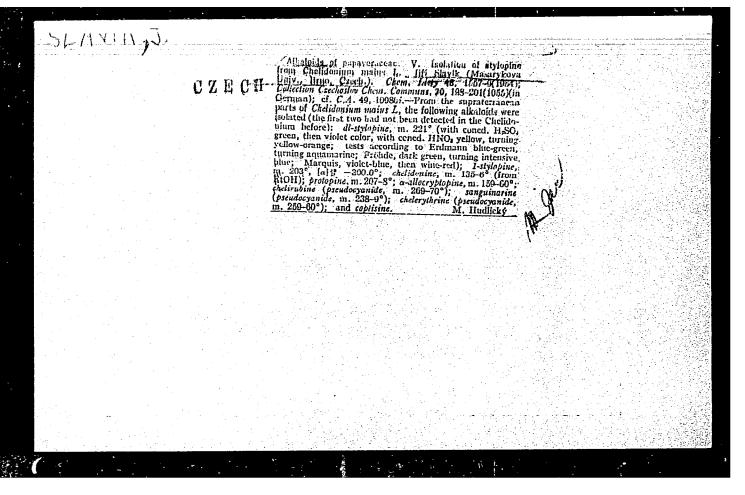












#### SLAVIK, Jiri

Papaveraceae alkaloids. I. Chelidonium maius L. substances. Cesk. farm. 4 no.1:15-17 Jan 55

1. Z Ustavu pro lekarskou chemii university v Brne.
(ALKALOIDS,
Chelidonium maius alkaloids)
(PLANTS,
Chelidonium maius alkaloids)

SLAVIK, J.

Alkaloids of the Papaveraceae. IV. Alkaloids of Glaucium flavum Grantz. In German P. 32

Vol. 20, no. 1, Feb. 1955 SBORNIK CHEKHOSLOVATSKIKH KHIMICHESKIKH RABOT Praha, Czechoslovakia

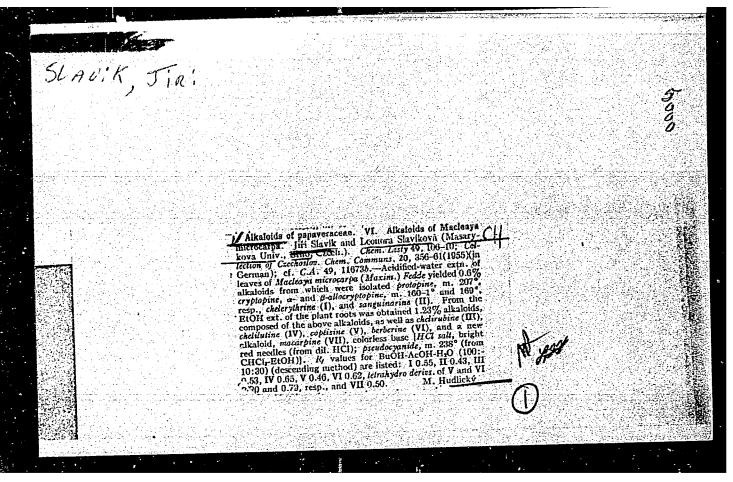
So: Eastern European Accession Vol. 5, No. 4, 1956

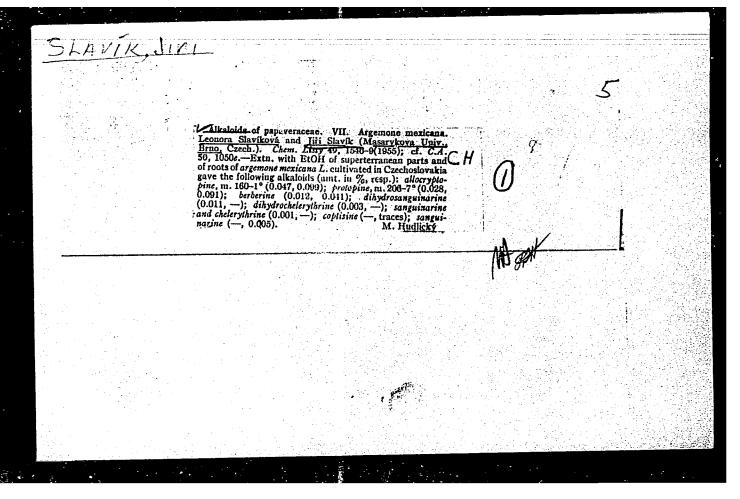
SLAVIK, J.

Alkaloids of the Papaveraceae. V. Isolation of stylopine from Chelidonium majus L. In German. p. 198

Vol. 20, no. 1, Feb. 1955 SBORNIK CHEKHOSL**OT**ATSKIKH KHIMICHESKIKH RABOT Praha, Czechoslovakia

So: Eastern European Accession Vol. 5, No. 4, April 1956

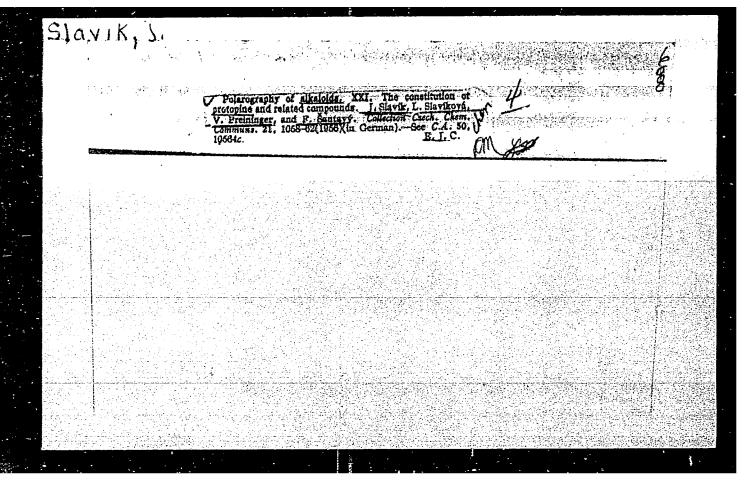


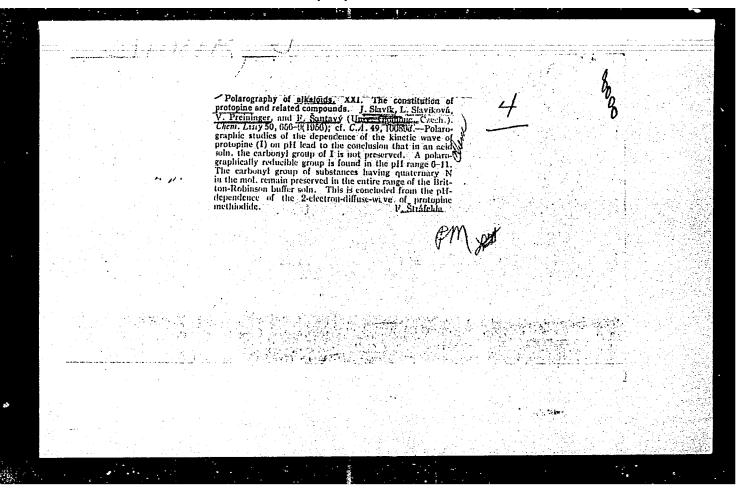


SLAVIK, J.; SLAVIKOVA, L.

Alkaloids of the Papaveracease. VIII. Glaucium corniculatum Curt. p. 969. (Chemicke Listy, Praha. Vol. 50, no. 6, June 1956.)

SO: Monthly List of Past European Accession (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.





SLAVIK, J. : SLAVIKOVA, L.

"Alkaloids of poppies (papa-veraceae).VIII Alkalolds in the red poppy (Glauclum corniculatum Curt.). In German."

p. 279 ( COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK CHECKHOSLOVATSKIKH KHMICHESKIKH RABOT. — Praha, Czechoslovaka.) Vol. 22, No. 1, Feb. 1957

SO: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

AUTHOR: Slavík, Jiří CZ/8-52(92)-10-20/39

TITLE: Alkaloids of the Papaveraceae. X. (Alkaloidy rostlin makovitých (Papaveraceae) X. Secondary Alkaloids from

Papaver rhoeas L. and Dicentra spectabilis L. (O vedlejsich alkaloidech z maku vlčiho (Papaver rhoeas L.) a

srdcovky nádherné (Dicentra spectabilis L.)

PERIODICAL: Chemické Listy, 1953, Vol.52(32), Nr 10, pp 1957 - 1964

(Czechoslovakia)

ABSTRACT: It was found that Papaver rhoeas L. contains, besides

rhoeadine, several other alkaloids; of these protopine and coptisine were identified as well as bases which are further referred to as alkaloids I, II, III and IV. During the conversion of rhoeadine to rhoeagenine, the formation of methanol was observed. 0.12% alkaloids were found in the flowering part of local plants and 0.11% in the roots. A small amount of sanguinarine, chelerythrine, chelilutin, chelirubine and coptisine were found besides protopine in Dicentra spectabilis L.

Tables 1 and 2 give the alkaloid content of the two plants. Details of the separation of the alkaloids

Card 1/2 from the flowering parts and the roots and of the

Alkaloids of the Papaveraceae. X. Secondary Alkaloids from Papaver rhoeas L. and Dicentra spectabilis L.

cleavage of rhoeadine with diluted acids from Papaver rhoeas L. are given. There are 2 Tables and 13 References: 6 English, 5 German, 1 French and 1 Czech.

ASSOCIATION: Ustav pro lekarskou chemii, Masarykova universita, Brno (Institute for Medicinal Chemistry, Masaryk University, Brno)

PRESENTED: 7th January, 1958.

Card 2/2

SLAVIK, J.; SLAVIKOVA, L.

Alkaloids of the poppy plants (Papveraceae). XI. Some additional alkaloids from Glaucium flavum Cr. and G. flavum var. fulvum (Smith) Fedde. In German. Coll.Cz.Chem. 24 no.9:3141-3147 S '59.

(REAI 9:5)

1. Institut fur medizinische Chemie, Masaryk-Universitat, Brno. (ALKALOIDS) (PAPAVERACRAE) (POPPY) (HORN POPPY) (GLAUCIUM)

SLAVIK, J.

Alkaloids of poppy plants (Papaveraceae). XII. Constitution of (-)-Norchelidonin, a new alkaloid from Glaucium flavum Cr. and G.flavum var. fulvum (Smith) Fedde. In German. Coll.Cz.Chem. 24 no.11:3601-3605 N '59. (EEAI 9:5)

1. Institut fur medizinische Chemie, Masaryk-Universitat, Brno. (Alkaloids) (Papaveraceae) (Horn poppy) (Poppy)

#### SLAVIK, J.

Alkaloids of thepoppy plants (Papaveraceae). XIII. Alkaloids from Glaucium vitallinum Boiss.et Buhse. Coll Ch Zhem 25 no.12: (EEAI 9:6)

1. Institut fur medizinische Chemie, Masaryk-Universitat, Brno. (Alkaloids) (Papaveraceae) (Horn poppy)

SLAVIKOVA, L.; TSCHU SHUN; SLAVIK, J.

Alkaloids of poppy plants (Papaveraceae). XIV. Alkaloids from Argemone alba Lestib. Coll Cz chem 25 no.3:756-760 Mr '60. (EEAI 9:12)

1. Institut fur medizinische Chemie, Masaryk-Universitat, Brno (for Slavikova, Slavik). 2. Jetzige Adresse: Institut fur Pflanzen-Chemie, Chinesische Akademie der Wissenschaften, Peking (for Tschu Shun)

(Alkaloids) (Papavereceae) (Argemone alba)

Alkaloids of poppy plants (Papaveraceae). XVI.Alkaloids of some Meconopsis species. Coll Cz Chem 25 no.6:1663-1666 Je '60. (EEAI 10:9)

1. Institut fur Medizinische Chemie, Masaryk-Universitat, Brno. (Poppy) (Papaveraceae) (Alkaloids) (Meconopsis)

SLAVIK, J.; SLAVIKOVA, L.

Alkaloids of poppy plants (Papaveraceae). XVII.New alkaloids from Sanguinaria canadensis L. Coll Cz Chem 25 no.6:1667-1675 Je (60. (EEAI 10:9)

1. Institut fur Medizinische Chemie, Masaryk-Universitat, Brno.

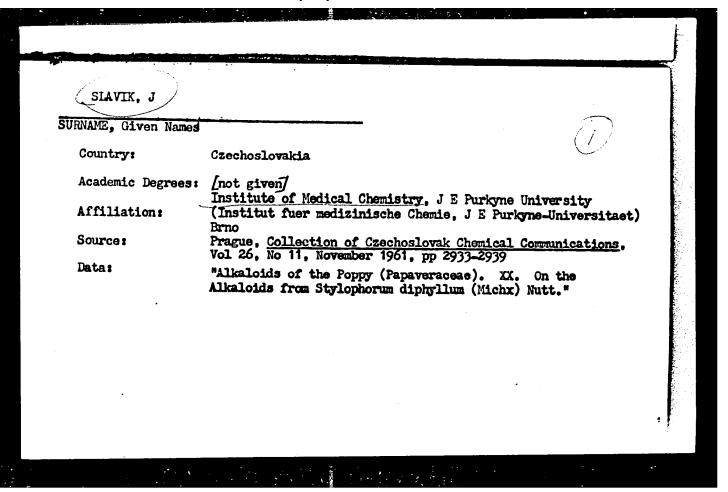
(Poppy) (Papaveraceae) (Alkaloids) (Sanguinaria canadensis)

SLAVIK, J.; SLAVIKOVA, L.

Alcaloids of poppy plants (Papaveraceae). Part 19: Alcaloids from Dicranostigma lactucoides Hook. F. et Thoms. Coll Cz Chem 26 no.7: 1839-1844 Jl 161.

1. Institut fur medizinische Chemie, Purkyne Universitat, Brno.

(Slavik, J.) (Slavikova, L.)



SLAVIK, J; SLAVIKOVA, L.

Institute of Medical Chemistry of Purkyne University, Brno (for both)

Prague, Collection of Czechoslovak Chemical Communications, No 7, 1963, pp 1720-1727

"Alkaloids of Poppy Plants (Papaveraceae) XXI. On the Alkaloids of Meconopsis cambrica (L.) Vig."

SLAVIK, J.

Institute of Medical Chemistry of Purkyne University, Brno

Prague, Collection of Czechoslovak Chemical Communications, No 7, 1963, pp 1738-1745

Alkaloids of Poppy Plants (Papaveraceae) XXIII. On Alkaloids of Papaver dubium L. and On the Constitution of Aporhein."

SLAVIK, J; SLAVIKOVA, L.

Institute of Medical Chemistry of Purkyne University (Institut für medizinische Chemie, Purkyne-Universität), Brno (for both)

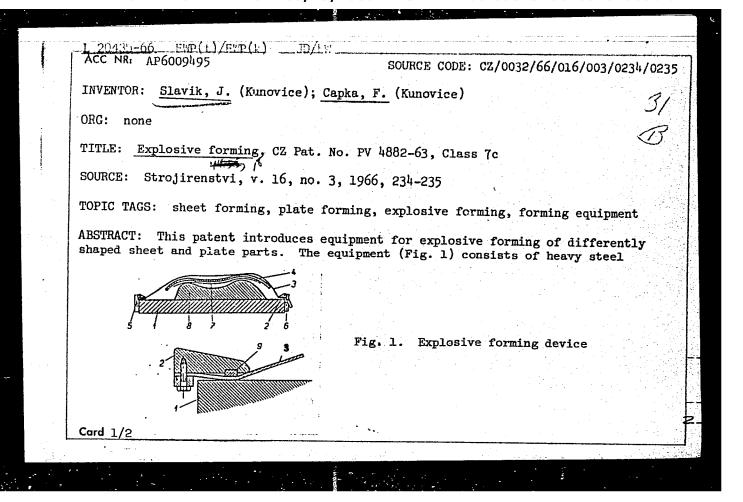
Prague, Collection of Czechoslovak Chemical Communications, Ho 9, 1963, pp 2530-2533

"Alkaloids of the Poppy Plant (Papaveraceae) XXV. Alkaloids of Glaucium oxylobum Boiss. et Buhse."

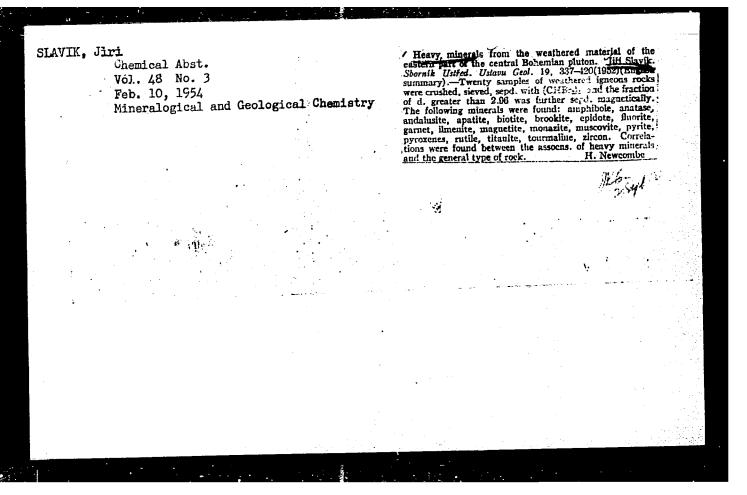
DOLEJS, L.; HANUS, V.; SLAVIK, J.

A mass spectrometric study of protopine alkaloids. Coll Cz Chem 29 no.10:2479-2483 0 '64.

1. Institute of Organic Chemistry and Biochemistry. Institute of Physical Chemistry, Czechoslovak Academy of Sciences, Prague, and Department of Chemistry, Faculty of Medicine, Turkyne University, Erno.



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SLAVIK, J.

Remarks on the sedimentary development of the Kosice and Trebisov basins and vicinity in eastern Slovakia. p. l.

ROZPRAVY. RADA MATEMATICKO-PRIRODOVEDECKA, Praha, Vol. 65, no. 5, 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955, Uncl.

SI WIL. ..

STLATE, J. Become on the decitic tuffites in the Marine Tortonian of the Outer Carpathian Bacin in Aprovia, p. 29

Vol. 31, No. 1, 1956
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Proha, Czechoslovskia

So: Rast American Accession, Vol. 6, No. 2, Feb. 1957

SLAVIK, J.

"Notes on the geolic structure of the coal basin in the area of Hnojne below the Vihorlat mountain range."

p. 82 (Casopia Pro Mineralogii A Geologh, Vol. 2, no. 3, 1957, Czcholovakia)

Monthy Index of East European Accessions (EEAI) LC. Vol. 7. No. 2, February 1958

SLAVIK, J.
"Possibilities of a metallogenesis in the Vihorlat Mountains."
p. 76 (Geologicky Sbornik, Vol. 9, no. 1, 1958, Praha, Gzechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9, September 1958

SLAVIK, J.

GEOGRAPHY & GEOLOGY

Periodicals: GEOLOGICKE PRACE No. 49, 1958

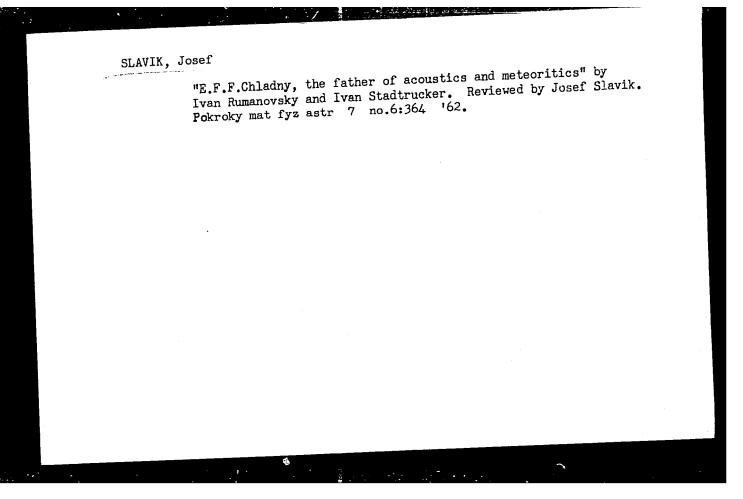
SLAVIK, J. Origin of the Velke Okno Lake and its basins in the Vihoriat Mountain Range. p.199

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

SLAVIK, Jiri; SKOCEK, Vladimir

Montmorillonite clays in the Permian of the Kladno-Rakovnik Basin. Vest ust gool 39 no.2:141-142 Mr'64

1. Ustredni ustav geologicky, Praha.



ED

Contollerapia

#### **Anti-Vibration Paints**

By J. B. SLAVIK and J. NEMEC. (From Strojiestei, Vol.1, No. 1, 1951, pp. 29-33, 7 illustrations, 5 tables.)

A series of experiments was carried out to determine the effect of several Czech-produced anti-evbration points on the damping of vibrations, particularly those in the sonic range.

#### PRILIMINARY EXPERIMENTS.

An experimental paint produced by one of the authors and containing suitably prepared slag woul and varnish was tested on sheets 100 cm - 07 cm (40 in. - 20 in.) and 0.5 and 1 mm in thickness. The attenuation of the sound was measured by a subjective method in a totally noiseless room, using a stop watch. To produce the vibrations, the sheets were freely suspended and a wooden ball weighing 0.2 kg (0.44 lb) was dropped on its surface from a height which freely suspended and a wooden ball weighing 0.2 kg (0.44 lb) was dropped on its surface from a height which was identical for all the tests. The time was measured by two observers, and in each case the average of 20 readings was evaluated. The measuring accuracy was 15 to 20 per cent. The sound level at the misment of impact of the wooden ball on the sheet was measured by a General Radio Co., Type 759-A sound level meter tin decibels), the microphone being placed at a distance of 150 cm from the sheet. There alternative paints of this type were tested and the results obtained are summarised in Figs. 1 and 2 and Table 1.

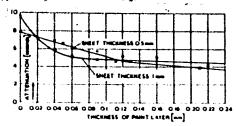


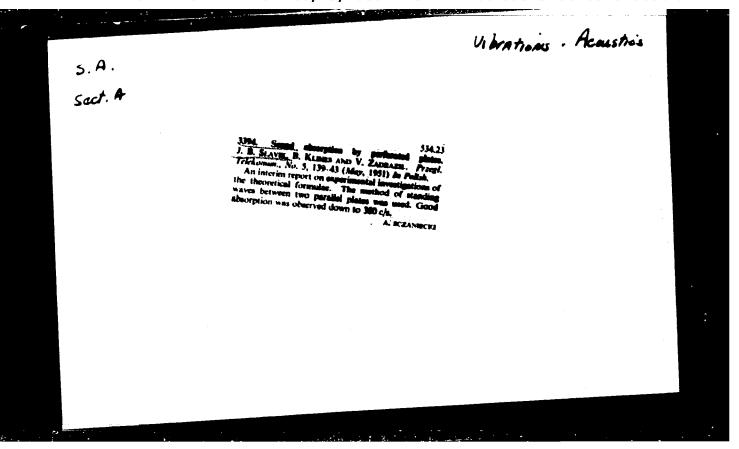
Fig. 1. Influence of the anti-vibration point A on sound attenuation.

#### ANTI-VIBRATION PAINT A.

The results obtained are given in Fig. 1. In the case The results obtained are given in Fig. 1. In the case of a 0.22 mm thick point coating, the attenuation of the sound is reduced by about 50 per cent for 0.5 mm thick sheets and by about 50 per cent for 1 mm thick sheets. In addition to the attenuation of the sound due to the impact, the attenuation of the sheet due to distortion also exerts an influence in the case of the thinner sheets. The paint had no influence on the sound level at the instant of impact. The paint is thinly liquid and can be created as prayed on.

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100



SLAVIK, J.

"The problem of sound absorption of material." P. 521.

SLABOPROUDY OBZOR. (Ministerstvo presneho strojirenstvi, Ministerstvo spoju a Vedecka technicka spolecnost pro elektrotechniku pri CSAV). Praha, Czechoslovakia, Vol. 16, No. 10, Oct. 1955.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

SLAVIK, J.: JAHODA, J.: KLIMES, P.

The stiffening of large vibrating surfaces. p. 667

STROJIPENSTVI (Ministerstvo tezkeho strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Vol. 6, No. 10, Oct. 1956

Fraha, "zechoslavakia

SCURCE: East European List (EEAL) Library of Congress, Vol. 6, No. 1, January 1957

32A6A, T

Slavik, J.; Vachek, J.

Slavik, J.; Vachek, J. Problems of forming Czech national logatoms; also comments by B. Borovickova and F. Kroutl. p. 634.

Vol. 17, no. 11, Nov. 1956 SLABOPROUDY OBZOR TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, May 1957
No. 5

SLAVIK, J.; JAHODA, M.

Modification of Hartmann's air-jet generator; a preliminary communication. p. 63. (Matematicko-Fyzikalny Casopis, Vol. 7, No. 1, 1957, Bratislava, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

SLAVIK, I.B.

AU'THOR: Slavik, I.B.

46-2-17/23

(Razvitiye TITLE: Acoustics developments in Czechoslovakia.

akustiki v Chekhoslovakii)

"Akusticheskiy Zhurnal" (Journal of Acoustics), 1957, Vol.3, No.2, pp. 197-199 (U.S.S.R.) PERIODICAL:

The author presents a general survey of the state of the acoustical science and technology up to the present time. The main works on acoustics are listed. The following scientific ABSTRACT: acoustics centres are mentioned: the Chair of Physics and the Chair of Sound and Motion Picture Engineering of the El. Engincering Department of the Czechoslovakian Polytechnic Institute in Prague; the Indoratory of the Medical Acoustics of the Faculty of Medicine and the Chair of Phonetics of the Faculty of Philosophy of the Karlov Prague University; the Scientific Research Institute of Radio Communications; the Scientific and Reseach Institute of Line Communications; the Scientific and Research Institute of Heat Technology; the Scientific and Research Institute of Sound Recording and Reproduction; the Scientific and Research Institute of Motor Transport; the Scientific and Research Institute of Building Materials and Civil Engineering; the Scientific and Research Institute of Electrical Communications. Periodicals: "Slaboprendy Obzor" Card 1/2

CIA-RDP86-00513R001651310006-8"

APPROVED FOR RELEASE: 08/25/2000

CZECHOSLOVAKIA/Acoustics - Architectural Acoustics

J-7

Abs Jour : Ref Zhur - Fizike, No 9, 958, No 21353

: Slavik J.B., Klimes B., Vondrus K., Kanta F. **Author** 

: Not Givon Inst

: "Equisons" as Auxiliary Means for Design of Sound Insulation Title

Orig Pub: Strojironstvi, 1957, 7, No 12, 893-894

Abstract : When sound insulating a closed volume, uniform acoustic treatment of all the surfaces may be expensive and of little offectiveness. It is indicated that determination of the places requiring reinforced sound insulation can be readily effected with the eid of "Equisons," which are surfaces that joint points with equal levels of sound loudness. By way of an example, the plot of "Equisons" in the cabin of a passenger cirplene is given. The plot shows clearly places that require reinforced sound insulation.

: 1/1 Card

CIA-RDP86-00513R001651310006-8" APPROVED FOR RELEASE: 08/25/2000

SLAVIK, J. B

CZECHOSLOVAKIA/Acoustics - Architectural Acoustics

J-7

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 14051

Author : Slavik J.B., Ticky J.

Inst : Not Given

Title : Estimate of the Coefficients of Absorption of Sound, Measured

by the Method of Standing Waves and by the Reverberation

Mathod

Orig Pub: Slaboproudy, obzor, 1957, 18, No 8, 545-548

Abstract : After examining the literature data, the author gives results

of measurements of the coefficient of absorption of sound of certain acoustic materials. It is indicated that the problem needs additional theoretical and experimental research.

Eibliography, 17 titles.

Card : 1/1

34

Fundamentals of Atomic Physics (Cont.)	CZECH/2412
Klimes is of the Katedra fysiky na elektrotechnické fakulté Ceskéh vysokého učení technického, Praha (Physics Department of the Elect Faculty at the Czech School of Higher Technical Education, Prague) are 104 references: 43 Soviet, 20 Czech, 11 German, 2 French, and English.	. There
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CZECHOJLOVAKIA/Acoustics - Tempral Problems

J-1

Abs Jour : Rof Zhur - Fizika, No 5, 1959, No 11444

Author : 31avik J.3.

Inst

: Soviet Acoustic Specialist in Czechoslovakia Title

Orig Pub: Pokroky mat., fys. a astron., 1958, 3, Ho 3, 384-

385

Abstract: Brief description of the visit of Soviet acousti-class-Academician M.N. Androyev, corresponding

member Academy of Sciences, USSR, L.A. Breknovskikh, and Professor S.W. Rzhevkin, in Czechoslovakie. The papers delivered by these scientists are listed, and the consultation work that they performed is reported. At the Congress of Czechoslovak Physicists, the resolution noted the need

for creating an acoustic institute, analogous to the accustic institute of the Academy of Sciences,

USSR. ... C.G. Khraban

: 1/1 Sard

SLAVIK, J; TICHY, J.; VONDRUS, K.

"Noise conditions in electric-power plants."

Energetika. Praha, Czechoslovekia. Vol. 8, no. 12, Dec. 1958.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

SLAVIK, J.; KLIMES, B.

"Noise conditions in smaller hydroelectric-power plants."

Energetika. Praha, Czechoslovakia. Vol. 8, no. 12, Dec. 1958.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 6, Jun 59, Unclas

SLAVIK, J.

"Public and health-economic significance of the fight equinst noise."

MOVA TWO THIMA. Praha, Czechoslovakia. No. 4, 1959

Monthly list of East European Accessions (REAI), IC, Vol. 3, No. 6, Jun 59, Unclas

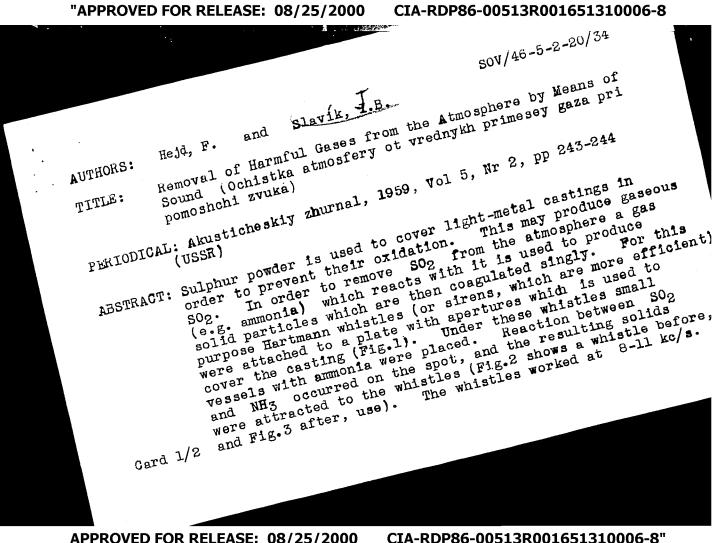
SLAVIK, J.

"Significance of physics for study in technical fields"

Pokroky Matematiky, Fysiky a Astronomie. Praha, Czechoslovakia. Vol. 4, no. 1, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

# CIA-RDP86-00513R001651310006-8



CIA-RDP86-00513R001651310006-8" APPROVED FOR RELEASE: 08/25/2000

#### SLAVIK, J.

"Protection against traffic noise." (Supplement) P. 2.

NOVA TECHNIKA. (Rada vedeckych technickych spolecnosti pri Ceskoslovenske akademii ved). Praha, Czechoslovakia, No. 6, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

SLAVIK, J.

TECHNOLOGY

Periodicals: ELEKTROTECHNIK Vol. 14, no. 3, Mar. 1959

SHAVIK , J. Simple detector of phase sequence equipped with glow-discharge tube. p. 100.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclass.

SLAVIK, J.B.

## PHASE I BOOK EXPLOITATION

CZECH/5188

- Petržílka, Václav, Professor, Doctor, Corresponding Member of the Czechoslovak Academy of Sciences; Josef B. Slavík, Professor, Czechoslovak Academy of Sciences; Josef B. Slavík, Profess Doctor, Jan Tich:, Doctor, and Jiří Zelenka, Engineer
- Piezoelektřina a její technické použití (Piezoelectricity and Its Technical Use) Praha, Nakl. Československé akademie věd, 1960. 534 p. 1,300 copies printed. Sekce matematicko-
- Sponsoring Agency: Československá akedemie věd. Sekce matematick fysikální. Scientific Editor: Emanuel Klier, Docent, Doctor; Reviewer: Josef Beneš, Professor, Doctor; Ed. of volume:
- PURPOSE: The book is intended for students of schools of higher education, physicists, and for scientific and technical prsonnel concerned with the use of piezoelectricity in electrical engineering, construction, chemistry, biology, medicine, and other fields of science.

card 1/17

Piezoelectricity and Its Technical Use

CZECH/5188

COVERAGE: The book consists of two parts. The first part deals with the basic physical properties of piezoelectric crystals, the vibrations of piezoelectric resonators, and the technology of producing crystal elements. The second part is devoted to applications of piezoelectric crystals in various branches of engineering, particularly the following: the control of the frequency of broadcasting stations and radio transmitters in general; the production of very selective filters used in long-distance telephone lines and single-sideband transatlantic radiotelephone systems; the production of stable oscillators and timekeeping systems; the generation of ultrasonic waves; and measuring technique. About twenty years ago a book written by two of the present authors, V. Petržilka and J. B. Slavík, was published under the title "Piezoelektřina a její použítí v technicke praxí" (Piezoelectricity and Its Uses in Engineering Practice). In 1951 the book "Piezoelektřina I " (Piezoelectricity I), written by V. Petržilka and consisting of a major expansion of the physics section of the earlier edition, was published. The present book, written in cooperation with former students of the

Card\_2/17

Piezoelectricity and Its Technical Use

CZECH/5188

original authors, represents, therefore, a third version of their work. V. Petržílka edited Part I and also wrote Ch. I. I. Šolc wrote Ch. V, Par. 4 of Ch. VII, and Ch. XI. J. Tichý wrote Ch. II (except Par. 6), Chs. III, IV (except Par. 6), VI (except Pars. 6 and 9), VII (except Pars. 4 and 5), VIII and IX. J. Zelenka wrote Par. 6 of Ch. VI, Par. 5 of Ch. VII, and Ch. X. V. Janovec, Candidate of Sciences, wrote par. 6 of Ch. II, dealing with ferroelectric materials, Par. 6 of Ch. IV, and, together with Doctor H. Arend, Par. 9 of Ch. VI. Part II was written by O. Taraba in collaboration with J. B. Slavík, who also edited this part of the book. The authors thank the following persons for help in editing the manuscript: J. Hanzl, Engineer; C. Höschl, Docent, Engineer; K. Hruška, Graduated Physicist; K. Kratochvíl, Graduated Physicist; J. Kraus, Engineer; J. Paty, Engineer; J. Rais, Docent, Doctor, Engineer; L. Sodomek, Graduated Physicist, and J. Smid, Candidate of Sciences, Engineer. They also that O. Bares, Engineer, and Jar. Tarabova for help in drawing the figures and preparing the photographs in Part I and Part II, respectively. References follow each chapter, and a general list of 132 references is given at the end of the book. There is also

Card 3/17

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Piezoelectricity and Its Technical Use Constant a glossary of translations of special terms in piezo	ZECH/5188
into Czech from the following languages: Russian, land German.	
TABLE OF CONTENTS:	
PART I.	
Ch. I. History and Meaning of Piezoelectricity	23
Ch. II. Nature of Piezoelectricity, Pyroelectricity, a Ferroelectricity  1. Polarization of the dielectric 2. Electrostriction 3. Piezoelectricity 4. Pyroelectricity 5. Electret 6. Ferroelectric substances 1) Definitions and crystallographic classificati of ferroelectric substances  Card 4/17	28 28 29 30 34 35 37

z/039/60/021/03/019/028 E073/E135

J.B. Slavik (Professor, Doctor of Natural Sciences) and AUTHOR:

Julius Strand (Professor)

Professor Doctor of Natural Sciences J.B. Slavík TITLE:

on the Occasion of his own 60th Anniversary

PERIODICAL: Slaboproudý Obzor, 1960, Vol 21, Nr 3, pp 184-185

ABSTRACT: In this brief note he appeals to the Editorial Board

that if anything is to be published on the occasion of

his 60th birthday, his letter should be published

which states categorically that he is not in favour of

any commemoration articles.

Professor J. Strnad adds a few notes on his knowledge of and association with Professor Slavík as a man, and does not discuss any of his scientific achievements.

Card 1/1

Reversible and irreversible ...

S/194/62/000/001/032/066 D201/D305

rectifiers, prepared by the deposition of 99.99% pure Se were tested, with the temperature of treatment between 20 - 200°C. The measurements were carried out at constant voltage. The duration of the heat treatment was within 70 min. The results of measurements show that changes in electric conductivity are partly of a reversible and partly of an irreversible nature. At a temperature near to the melting point a maximally stable structure transformation of Se and it maximum conductivity are obtained. In the range 100 - 180°C the structure change of Se is adequately stable. Heat treatment of 30 min duration was found to be sufficient; during this the irreversible part of structural change is quite satisfactory. The instability of Se structure, due to inadequate heat treatment may lead to the harmful effect of ageing in the rectifiers; this effect limits the possibilities of their applications. 9 references.

Abstracter's note: Complete translation.

Card 2/2

SLAVIK, Josef B.; CHALUPOVA, Vera; KLIMES, Bohdan; TICHY, Jiri

Acoustic conditions at the stadium of the 2d National Spartakiad 1960. Slaboproudy obzor 22 no.5:258-265 '61. (EEAI 10:7)

1. Katedra fyziky na elektrotechnicke fakulte Ceskeho vysokeho uceni technickeho v Praze.
(Czechoslovakia—Stadiums)

SLAVIK, Josef B.

Effect of environment on the quality of acoustic perception. Slaboproudy obzor 22 no.7:401-407 <sup>1</sup>61.

1. Katedra fyziky na elektrotechnicke fakulte Ceskeho vysokeho uceni technickeho, Praha.

(Sound) (Architectural acoustics)

SLAVIK, J. B., prof., RNDr.; TOMAS, J.

The 2nd Conference on Agoustics in Budapest. Slaboproudy obzor 22 no.12:778 D 161.

(Sound)

TICHY, J.; SLAVIK, J. B., prof., RNDr.

The 4th International Congress on Acustics in Copenhagen. Slaboproudy obzor 22 no.12:778-779 D '61.

(Sound)

S/058/63/000/003/099/104 A059/A101

AUTHORS:

Podobský, Jaroslav, Tichý, Jiří, Slavík, Josef B.

TITLE:

Investigation of acoustic high-frequency filters

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 3, 1963, 57, abstract 3Zh344 ("Sb. Českosl. věd. techn. společn. zdravotní techn. a vzduchotechn. ČSAV", 1962, no. 4, 67 - 102, Czech; summaries in Russian, English,

French and German)

TEXT: Acoustic high-frequency filters and their properties are considered. From the basic acoustic determinations, theoretical ratios with respect to the attenuation of filters with outlets are derived. The attenuation of the individual filters has been experimentally established on the basis of measurements of the acoustic pressure before and after the filter. The theoretical values are compared with the measured ones, and it is established that they agree well with each other. A correction should be introduced into the ratio for the acoustic mass of the connecting pipes. From the theoretical ratios derived for one number of connecting pipes in the wall, a general ratio valid for an arbitrary

Card 1/2

	1
S/058/63/000/003/099/104 Investigation of acoustic high-frequency filters A059/A101	
number of connecting pipes at any distances has been established. The calculation of the corresponding ratios for a great number of connecting pipes can be rather laborious. It is, however, possible by an extremely simple method to determine approximately the transmission and attenuation with a great number of connecting pipes. In the paper, the existing theory of acoustic high-frequency filters is specified.	
[Abstracter's note: Complete translation]	

38797

Z/039/62/023/007/001/005 D409/D301

9.2150

AUTHORS:

Kroczek, Julius, Doctor, Engineer, and Slavik, Josef B., Professor, Doctor of Sciences, Engineer

TITLE:

Aging of semiconductor, namely selenium rectifiers

PERIODICAL:

Slaboproudý obzor, v. 23, no. 7, 1962, 369 - 373

TEXT: Since the service life of selenium rectifiers is considerably shortened by aging, the causes of this phenomenon are investigated with the aid of characteristics changes and provisions listed which limit the aging effect and make selenium rectifiers a dependable electrical component. The physical reason for aging, resulting in an increased resistance in a forward direction, is a structural change in the selenium layer, caused by a diffusion process and accelerated by elevated operating temperatures. In this process, activators diffuse from the selenium layer and deactivators (atmospheric oxygen and chemically active elements used in silicon disc manufacture) diffuse into the selenium layer. Classical diffusion laws can therefore

Card 1/3

Z/039/62/023/007/001/005 D409/D301

Aging of semiconductor, ...

be used also for quantitative determination of the semiconductor aging process. To limit the aging effect at least in a forward direction, the following technology for selenium-disc preparation is recommended: To increase the stability of the selenium layer, special attention must be paid to the transformation from one into another crystal modification. For both pressed-on and vapor-coated selenium layers, the transformation should be carried out at 140 - 218 °C and the completion of the recrystallization process should be checked by direct electrical conductivity measuring or by a photometer using surface reflection. Only such raw materials should be used which have a low diffusion coefficient and low chemical affinity to the activator, or intermediate layers should be applied to prevent detrimental effects on activators. Oxidation should be avoided during production as much as possible, and discs of air-cooled rectifiers should be protected by laquer coatings. There are 3 figures.

ASSOCIATION: Ústav pro elektrotechniku ČSAV, Praha (Electrical Engineering Institute, Czechoslovak AS, Prague) (J. Kroczek); Fyzikální ústav elektrotechnické fakulty ČVUT, Praha

Card 2/3

Z/039/62/023/007/001/005 Aging of semiconductor, ... D409/D301

(Physical Institute of the Electrical Engineering Department, Czech. Enstitute of Technology, Prague) (J.B. Slavik)

SUBMITTED:

March 15, 1962

Card 3/3

KODES, Jiri, inz.; KROCZEK, Julius, inz., dr., RNDr.; SLAVIK, Josef B., inz., prof., RNDr.

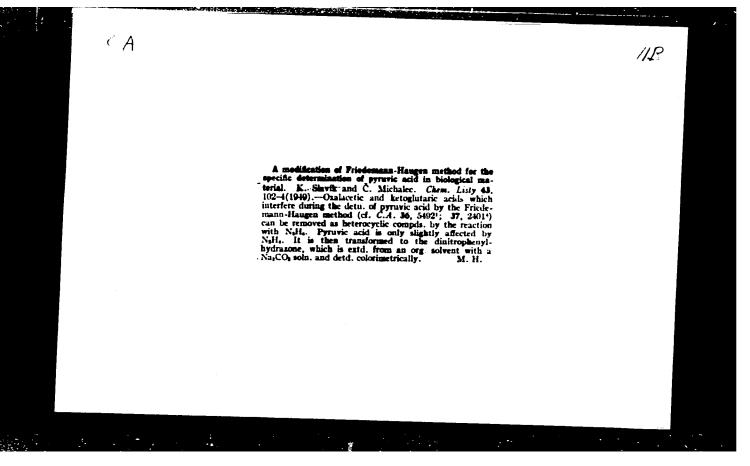
Diffusion effects in sclenium rectifiers demonstrated orga thalliumselenium boundary layer. Acta techn Cz 8 no.2:112-119 63.

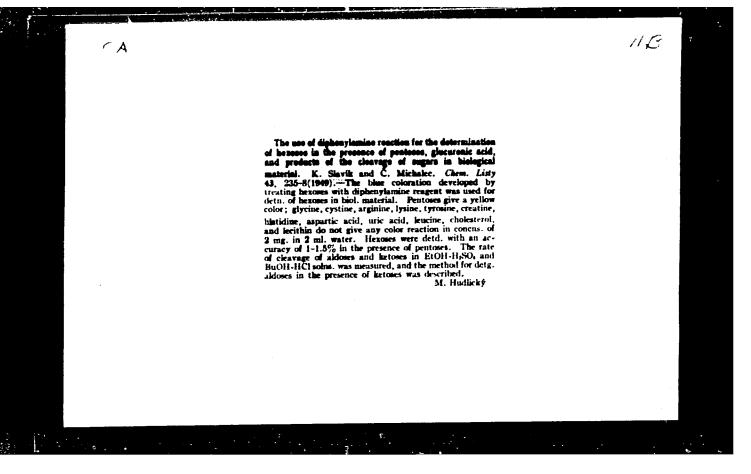
1. Assistent am Physikalischen Institut, Technische Hochschule, Praha 2, Karlovo namesti 13 (for Kodes). 2. Tschechoslowakische Akademie der Wissenschaften, Praha 1, Vaclavske namesti 55 (for Kroczek). 3. Direktor des Physikalischen Institutes, Technische Hochschule, Praha 2, Karlovo namesti 13 (for Slavik).

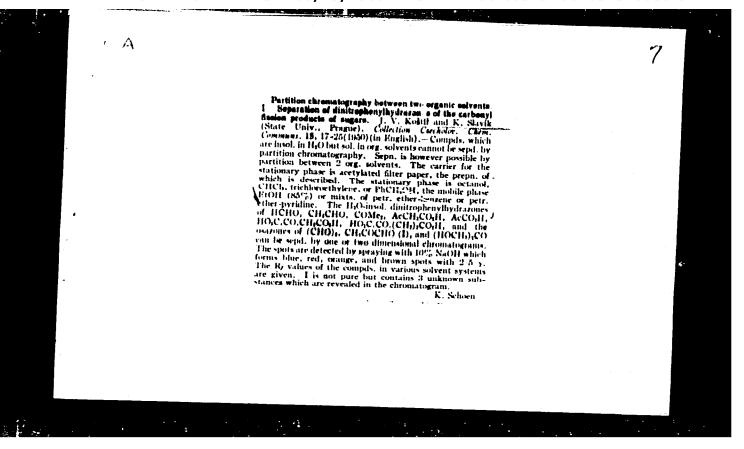
BOLESLAV, A.; KOLMER, F.; MERNAUT, J.; NEMEC, J.; SLAVIK, J.B., prof.

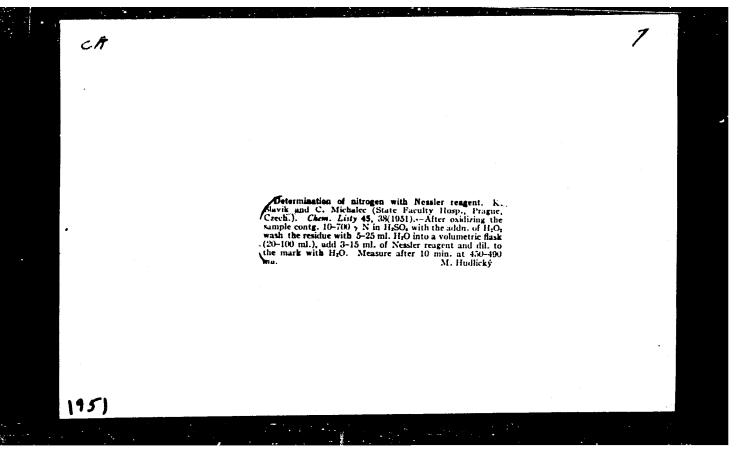
Report on the 4th International Congress on Acoustics in Copenhagen, August 21-28, 1962. Slaboproudy obzor 24 no.3:183-185 Mr '63.

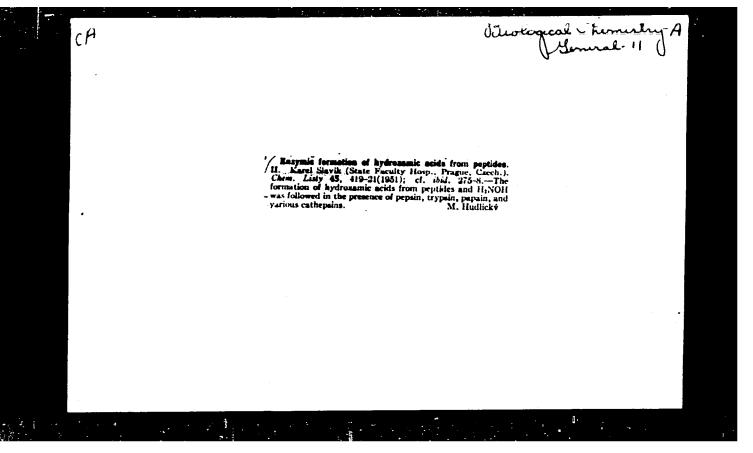
1. Katedra fyziky, Elektrotechnicka fakulta, Ceske vysoke uceni technicke Praha (for Slavik). 2. Vyzkumny ustav zvukove, obrazove a reprodukcni techniky, Praha (for Kolmer). 3. Statni vyzkumny ustav tepelne techniky, Praha (for Nemec).











SLAVIK, K.; STERZL, J.; RYBOVA, J.

Effect of histamine on glycolysis in bacteria [with summary in German]. Chekh. biol. 1 no.1:79-86 \$52. (MIRA 6:12)

1. Tsentral'nyy institut biologii, mikrobiologiya, Praha.
(Histamine) (Glycolysis) (Bacteria)

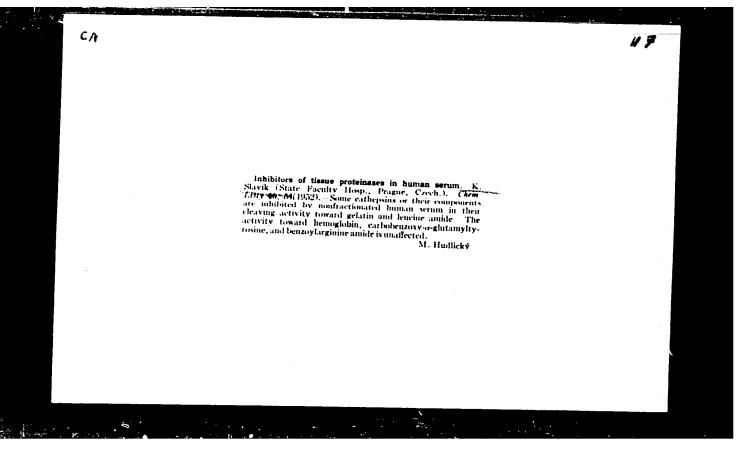
WWA, K.

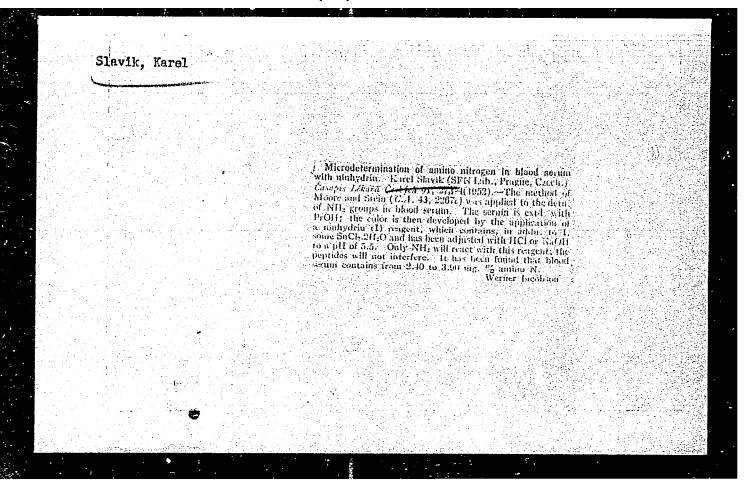
KOZINSKI, A.W.; MIKULASZEK, B.; SLAVÍK, K.

Adsorption of gram-negative endotoxic symplexes on the surface of erythrocytes; utilization of erythrocytes-fixation in the investigation and elution of protein fractions of andotoxic symplex. Med. dosw.mikrob., Warsz. 4 no. 2:197-196 1952.

(ULMu 22:4)

1. Of the National Institute of Hygiene is Wersaw and of the Institute of Medical Microbiology of Warsaw Medical Academy and of the Central Laboratory of State Faculty Hospital in Prague, Csecheslovakia.





SLAVIK, K.; MICHALEC, C.

Remarks on determination of tyramine and tyrosine with Gerngross reaction. Cas.lek.cesk. 91 no.10:301-302 7 Mar 52.

1. Z Ustredni laboratore SNF, prednosta dr. J.Horejsi.
(TYRAMINE, determination,
Gerngross method)
(TYROSINE, determination,
Gerngross method)

SLAVIK, K.: SMETANA, R.

Effect of nucleic acids on proteinages [with summary in English].

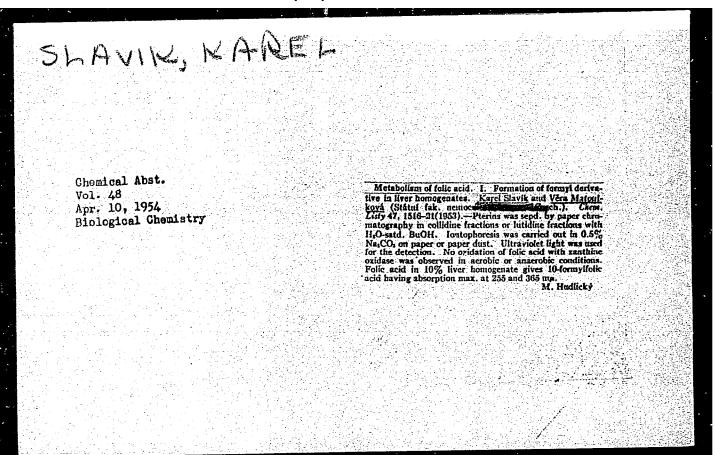
Shor. Chekh.khim.rab. 18 no.4:560-568 Ag '53. (MLRA 7:6)

1. Central Laboratory and Laboratory of the Third Clinic of Internal Medicine, the State Faculty Hospital, Prague. (Mucleic acid) (Proteinase)

# SLAVIK K.

The effect of nucleic acids on proteinases. p.253 (Chenical Listy. Vol. 47, No 2, Feb. 1953) Czechoslovakia

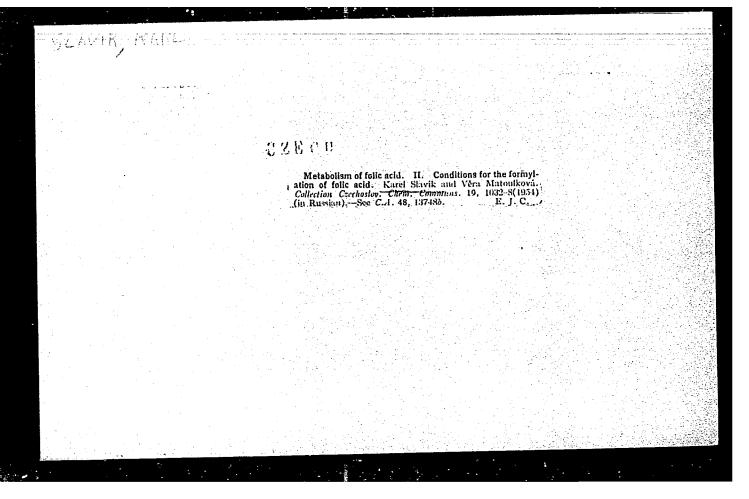
SO: Fonthly List of East European Accessions, Vol. 2, #8, Library of Congress, August 1953, Incl.

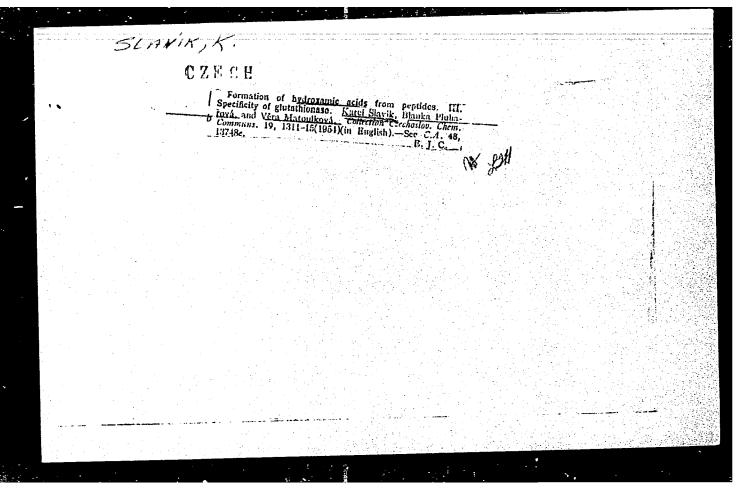


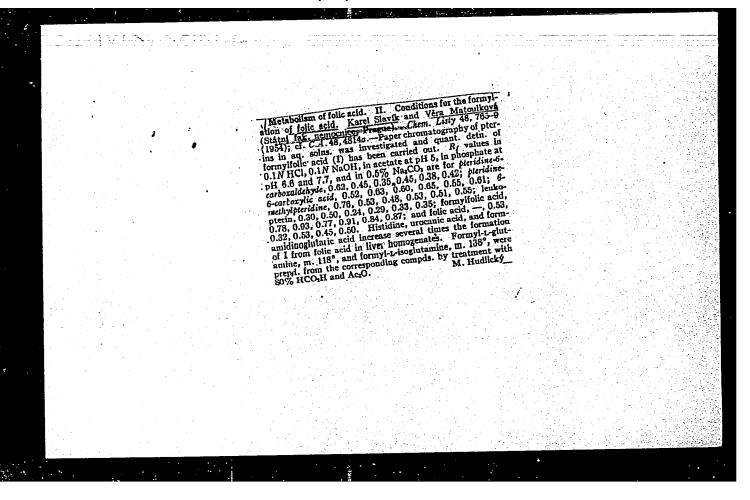
SLAVIK, K., MATOULKOVA, V.

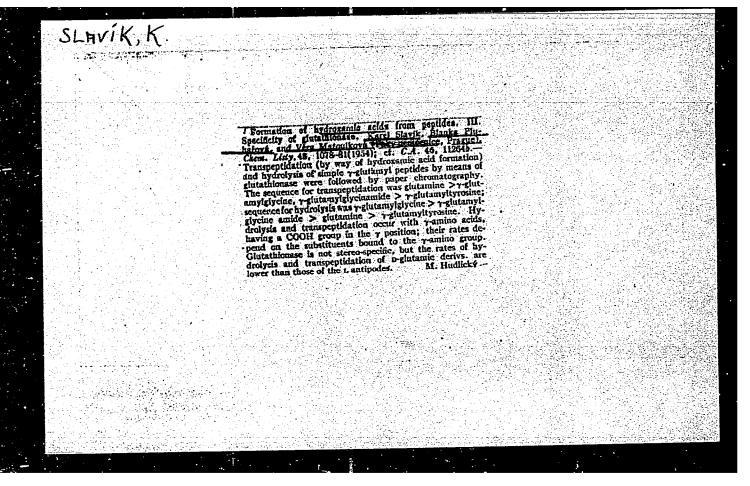
Folic acid metabolism. Part 1. Formation of the formyl derivative in liver homogenates [with summary in English]. Sbor. Chekh.khim.rab. 19 no.2:393-400 Ap \$54. (MLRA 7:6)

1. Gentral Laboratory, First State University Hospital, and Laboratory of the Third Clinic of Internal Medicine, Second State University Hospital, Prague. (Folic acid)









STYBLO, A., MUDr; SLAVIK, K., RNDr

Chromatographic determination of argentophil substances in urine. Cas. lek. cesk. 93 no.44:1228-1229 20 Oct 54.

1. OUME Frenstat p. Radhostem, luzk. cast, detske oddeleni (for Styblo) 2. Centralni laborator statni fak. nem. prof. Dr. Horejsiho (for Slavik)

(URINE, argentophil substances, chromatography)